**----------- C++ Programming Assignment ------------**

**(PG-DAC Feb. 2025)**

1. Write a Program to Copy String Without strcpy().
2. Write a Program to Print 0-01-010-0101 Number Pattern.

0

01

010

0101

01010

1. Write a Program to perform multiple inheritance for class Bank\_Account as Base class and Saving\_Account & Current\_Account as derived classes. consider suitable data members and member functions.And invoke the same.
2. WAP to implement Inheritance, Dynamic polymorphism,RTTI for given scenario.

- Consider a Movie class having attributes as (id,Movie\_Name,Realese\_Date,ticket\_amount)

And a member function display()-virtual function.

- Inherite Movie class to Bollywood\_Movie class having attributes (no.of ticktes,rating)

-Method

2.1 cal\_Tick\_amount(){ Tick\_amount =no\_of\_seats \*ticket\_amount)

2.2 display() ->display info of movie

Invoke display() to show information of Movie and also invoke cal\_Tick\_amount() using

downcasting.

1. Implement above program using array of object.
2. Given a sorted array of distinct integers and a target value, return the index if the target is found. If not, return the index where it would be if it were inserted in order.

Example 1:

Input: nums = [1,3,5,6], target = 5

Output: 2(index of target elelment in array)

Example 2:

Input: nums = [1,3,5,6], target = 2

Output: 1

1. Check whether entered two strings are anagram or not.

Example 1:

Input: str1-“nat” str2= “tan”

Output: strings are anagram.

Input: str1=”fan” str2=”cat”

Output=strings are not anagram

Explanation:

e.g.1)The strings "nat" and "tan" are anagrams as they can be rearranged to form each other.

e.g.2) The strings "ate", "eat", and "tea" are anagrams as they can be rearranged to form each other.

1. Using a function template write a program to find out minimum value contained in an array.
2. WAP to Check if string is a palindrome or not.
3. Write a program to find sum of all even and odd numbers between 1 to n.